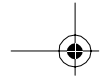




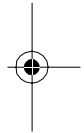
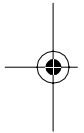
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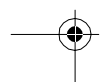
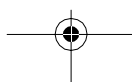
Cat. No. 32-1161
OWNER'S MANUAL

Please read before using this equipment.

Stereo Dual-Cassette Karaoke Center



OPTIMUS®



FEATURES

Your Optimus Stereo Dual-Cassette Karaoke Center lets you be the “star” as you sing along with your favorite recordings and hear your voice with the music through the system’s speaker. You can sing along with regular cassette tapes, or with special karaoke cassette tapes (such as the supplied tape) that let you balance the volume of the recording’s voice, your voice, and the music.

The system’s compact design and convenient carrying handle let you take it almost anywhere. You can also connect another audio source (such as a stereo VCR or a CD player) to the system and sing along. If you connect a stereo VCR and play a karaoke music video cassette, the cassette shows the lyrics on a TV and lets you adjust the volume of the original singer’s voice and the recording’s music.

Note: Additional karaoke cassette tapes, as well as karaoke video cassettes, are available through RadioShack Unlimited. See your local RadioShack store for ordering information.

Your karaoke center’s features include:

Echo Control — lets you add an echo to your voice for a concert hall effect.

Automatic Voice Control — lets you replace the original singer’s voice with your voice when playing a prerecorded karaoke tape.

Tape Speed Control — lets you adjust the tape speed to match the pitch of your voice.

Balance Control — lets you adjust the balance between the left and right speakers if you connect an external speaker, or adjust the balance between the prerecorded original singer’s voice and the music if you use a karaoke tape.

Karaoke Audio Tape — lets you sing along with the music and adjust the volume of the prerecorded voice and music.

Supplied Microphone — lets you sing along with the music and have your voice come through the speaker.

Dual Microphone Jacks — let you use two microphones at the same time for duets or lead and background vocals.

Recording — lets you record as you sing along with a tape or the sound from an external audio source.

Dual Cassette Decks — let you play two different tapes, or dub from one cassette to another.

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Consecutive Play — lets you play one side of two tapes, one after the other.

Three Power Sources — let you power your system from internal batteries, standard AC power with the supplied power cord, or your vehicle's battery with a DC adapter (not supplied).

5-Band Frequency Equalizer — lets you precisely adjust the tone and sound to your preference and your room's unique acoustics.

Built-In Speaker — lets you share the music with friends.

External Speaker Jack — lets you connect the system to an external speaker for stereo effects.

Auxiliary Input Jacks — let you connect another audio input source, such as a stereo VCR or CD player, so you can sing along with the source's sound.

Auxiliary Output Jacks — let you connect another audio output component, such as an equalizer/booster or a PA system.

WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.



CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT OPEN.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

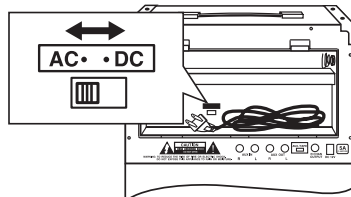
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MAKING THE CONNECTIONS

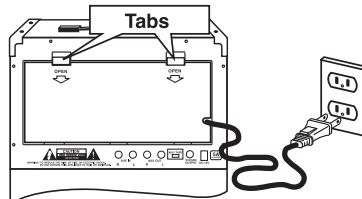
CONNECTING POWER

Caution: To prevent damage to your system, be sure to set **AC/DC** inside the battery compartment to **AC** when using AC power or to **DC** when using internal batteries or DC power.



Using AC Power

You can power the system from a standard AC outlet using the supplied power cord.



Caution: The supplied power cord has a polarized plug that fits into the outlet only one way. If the plug does not fit properly, turn it over and try again. Do not force it.

1. Press the battery compartment tabs in the direction of the arrows and lift off the cover.
2. Remove the power cord from the lower shelf in the battery compartment and plug it into a standard AC outlet.

3. Replace the cover, making sure the cord is routed through the cover's slot.

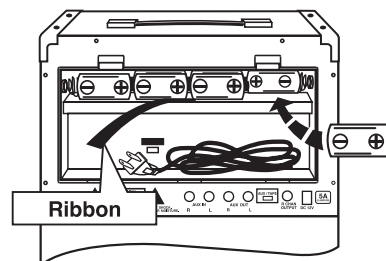
Installing Batteries

You can power your system using eight D batteries (not supplied). For the best performance and longest life, we recommend alkaline batteries, such as RadioShack Cat. No. 23-550.

Cautions:

- Always use fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

Follow these steps to install batteries.



1. Press the battery compartment tabs in the direction of the arrows and lift off the cover.

2. Insert the batteries in the compartment on top of the attached ribbon, as indicated by the polarity symbols (+ and -) marked inside.
3. Replace the cover.

If you are using the system with battery power and the sound becomes weak or distorted, replace the batteries. Pull up on the ribbon to remove the batteries.

Cautions:

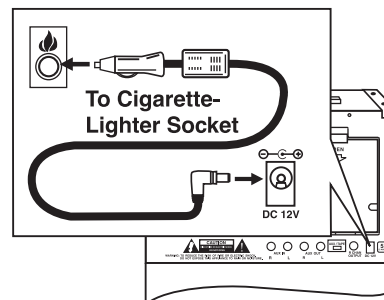
- If you do not plan to use the system with batteries for a week or more, or if you plan to use only an AC or DC adapter, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.
- Dispose of old batteries promptly and properly. Do not burn or bury them.

Using DC Power

You can also power the system from your vehicle's battery with a DC adapter (such as Cat. No. 270-1562, not supplied).

Cautions:

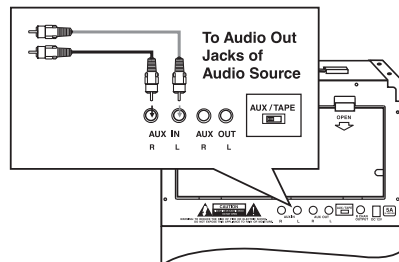
- The adapter must supply 12 volts and at least 3 amps, its center tip must be set to positive, and its plug must correctly fit the **DC 12 V** jack. The recommended adapter meets these requirements. Using an adapter that does not meet these requirements could damage the system or the adapter.
- To avoid electrical shock and damage to the system and vehicle, always unplug the adapter from the cigarette-lighter socket before unplugging it from the system.



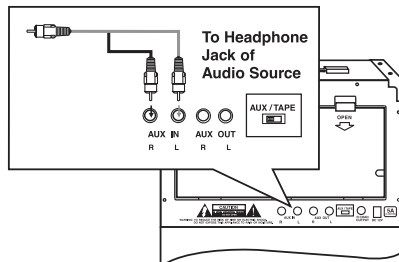
1. Insert the adapter's 5.5 mm outer diameter/2.5 mm inner diameter barrel plug into the adapter's cord.
2. Insert the plug into the **DC 12 V** jack on the back of the system.
3. Then plug the large end of the DC adapter cord into your vehicle's cigarette-lighter socket.

CONNECTING AN EXTERNAL AUDIO SOURCE FOR INPUT

To connect another audio source (such as a stereo VCR or CD player) so you can sing along with the audio source's sound, connect the audio source's stereo audio output jacks to the system's **AUX IN R** and **L** jacks.

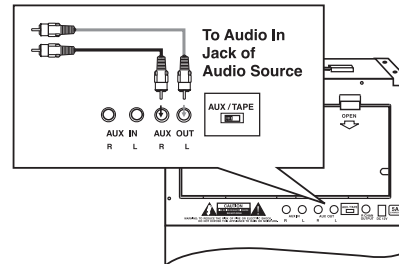


Note: If the external audio source does not have AUX OUT jacks, but has only a headphone output jack (such as one you might find on a portable tape or CD player), use a shielded Y-adaptor cord, such as Cat. No. 42-2475. Connect the single-plug end to the audio source's headphone jack, and connect the other end's two phono plugs to the system's **AUX IN R** and **L** jacks.



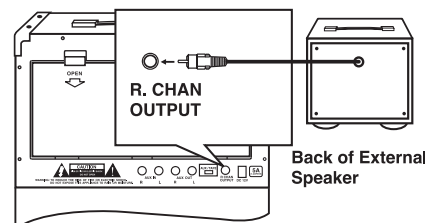
CONNECTING AN AUDIO COMPONENT FOR OUTPUT

To connect an audio component (such as a PA system amplifier) so you can hear the system's sound through it, plug the audio component into the **AUX OUT** jacks.



CONNECTING AN EXTERNAL SPEAKER

To connect an external stereo speaker (with 4 ohms and 20-watt impedance), plug the speaker into the system's **R. CHAN OUTPUT** jack.

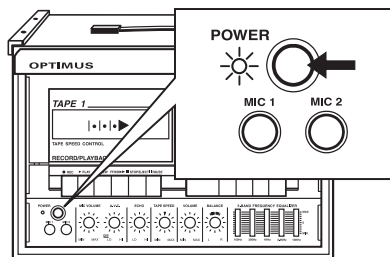


Caution: To avoid damage to the system, adapter, and vehicle, do not use a DC adapter while an external speaker is connected to your karaoke center.

BASIC OPERATION

TURNING POWER ON/OFF

To turn on the system's power, press **POWER**. The **POWER** indicator turns on. To turn off the system's power, press **POWER** again so the **POWER** indicator turns off.



ADJUSTING THE VOLUME

To decrease or increase the system's volume, turn **VOLUME** toward **MIN** or **MAX**.

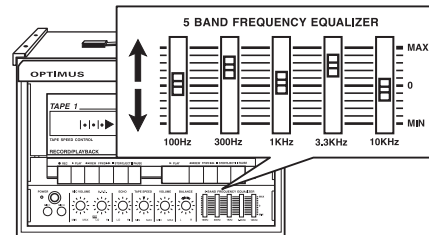
ADJUSTING THE BALANCE

If you connect an external speaker, turn **BALANCE** to adjust the balance between the left and right speakers.

USING THE 5-BAND FREQUENCY EQUALIZER

You can use the system's 5-band frequency equalizer to customize the sound you hear through the speaker. Each of the five controls lets you adjust the volume in a specific frequency range.

Slide the control up to increase or down to decrease the volume level for that frequency. If you set the control to the center position (**0**), the volume for the frequency is unchanged.



100 Hz — Adjusts the frequencies in the low-bass range (bass drums). Reduces rumble or other low-frequency noise.

300 Hz — Adjusts mid-range low frequencies (organ sounds).

1 kHz — Adjusts the range of frequencies where the ear is most sensitive (low vocals).

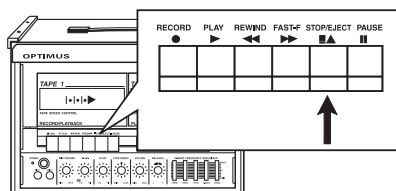
3.3 kHz — Adjusts mid-range high frequencies (high vocals).

10 kHz — Adjusts high-frequency sounds (cymbals, flutes, and violins).

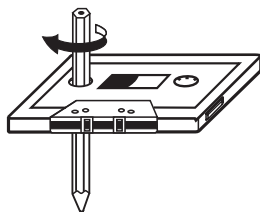
LOADING A CASSETTE TAPE

Follow these steps to load a cassette tape in TAPE 1 or TAPE 2.

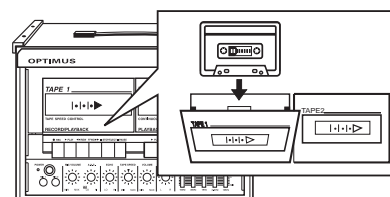
1. Press **STOP/EJECT** to open the cassette compartment.



2. Use your finger or a pencil to turn the cassette's hub and take up any tape slack. Avoid touching the tape with your fingers.



3. Load the cassette tape with its open edge facing down, the side you want to play or record on facing you, and the full reel to the left.



4. Close the compartment.

PLAYING A CASSETTE TAPE

You can play a cassette tape in either TAPE 1 or TAPE 2, or you can load cassette tapes in both decks and play one side of both tapes, one after the other.

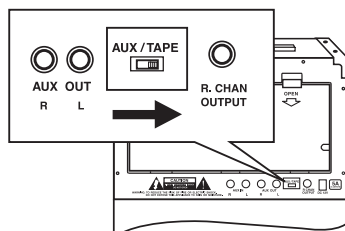
Normal Play

Follow these steps to play a cassette tape in TAPE 1 or TAPE 2.

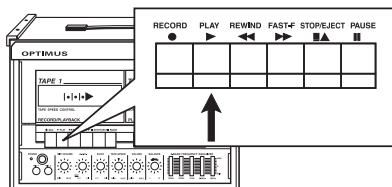
Warning: To protect your hearing, set **VOLUME** to **MIN** before you play a cassette tape.

1. Load a cassette tape into TAPE 1 or TAPE 2.
2. Press **POWER** to turn on the system.

3. Set **AUX/TAPE** on the back of the system to **TAPE**.



4. Press **PLAY** on **TAPE 1** or **TAPE 2**. The tape begins to play.

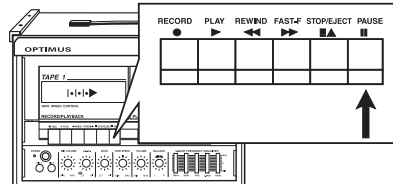


5. Adjust **VOLUME** and the equalizer controls for the desired sound.
6. If you connected an external speaker, adjust **BALANCE**.
7. The system automatically stops the tape when it reaches the end. To stop it sooner, press **STOP/EJECT**.

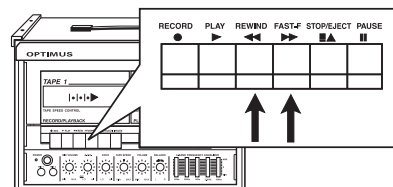
Turn the tape over and press **PLAY** to play the other side.

Notes:

- To temporarily stop play, press **PAUSE**. Press **PAUSE** again to resume play.



- To rapidly wind the tape forward or backward, press **FAST-F** or **REWIND**. **FAST-F** and **REWIND** lock down. Press **STOP/EJECT** when you reach the desired location.



Consecutive Play

Follow these steps to play one side of the tape in **TAPE 2**, then play one side of the tape in **TAPE 1**.

- Follow Steps 1–3 under “Normal Play” on Page 9, loading tapes in both **TAPE 1** and **TAPE 2**.
- Press **PLAY** on **TAPE 2**. The tape begins to play.
- Press **PAUSE** then **PLAY** on **TAPE 1**. Both buttons lock down when you press them.

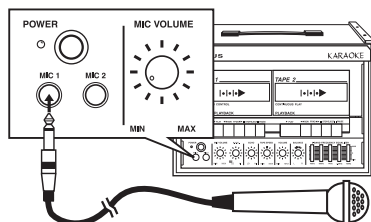
The tape in **TAPE 2** plays until it reaches the end of that side, and stops automatically. Then the tape in **TAPE 1** plays until it reaches the end of that side, and stops automatically.

SINGING ALONG

Now get ready for some fun! In this section, we tell you how to use your system's karaoke features.

USING THE CONTROLS

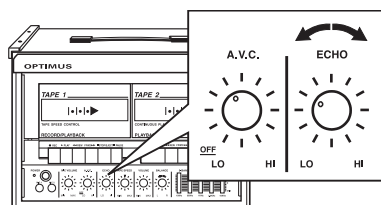
First, plug the supplied microphone's 1/4-inch plug into either **MIC 1** or **MIC 2**.



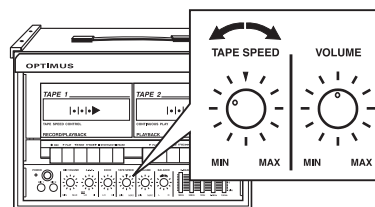
Note: A friend can also sing along with the music if you connect a uni-directional 600-ohm dynamic microphone with a 1/4-inch plug to the system's other **MIC** jack. Your local RadioShack store sells a wide variety of microphones.

Use the following controls to get the sound just right.

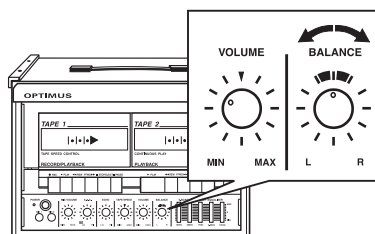
ECHO — Adds an echo effect to your voice while you sing. Turn **ECHO** toward **LO** for minimum echo effect or toward **HI** for maximum echo effect.



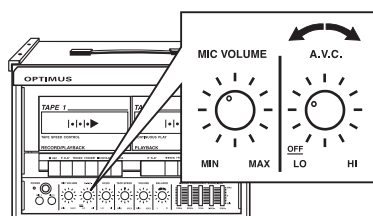
TAPE SPEED — While you play a tape (either a regular cassette tape or a prerecorded karaoke cassette tape), turn **TAPE SPEED** toward **MIN** to slow down the tape or toward **MAX** to speed it up.



BALANCE — While you play a karaoke cassette tape, turn **BALANCE** to adjust the balance between the pre-recorded original singer's voice and the music.



A.V.C. (Automatic Voice Control) — While you play a karaoke cassette tape, you can adjust **A.V.C.** to superimpose your voice over the prerecorded voice on the tape as you sing. If you have a loud voice, turn **A.V.C.** toward **LO**. If you have a soft voice, turn **A.V.C.** toward **HI**. To leave the prerecorded voice unchanged, turn **A.V.C.** to **OFF**.

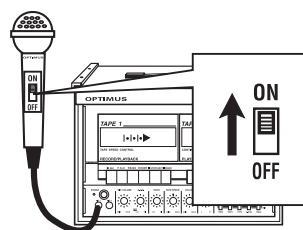


SINGING ALONG WITH A CASSETTE TAPE

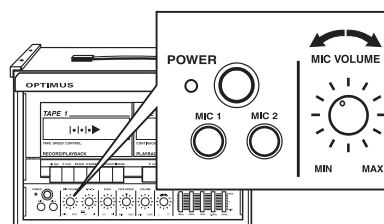
Follow these steps to sing along with a regular or karaoke cassette tape (such as the supplied cassette tape).

1. Press **POWER** to turn on the system. The **POWER** indicator turns on.
2. Load a prerecorded tape in either **TAPE 1** or **TAPE 2**.
3. Set **AUX/TAPE** on the back of the system to **TAPE**.
4. Press **PLAY** to play the tape.
5. Adjust **VOLUME** and the equalizer controls to the desired sound.

6. Set the microphone's **ON/OFF** switch to **ON**. Sing directly into the microphone along with the music.



7. Turn **MIC VOLUME** toward **MIN** or **MAX** to adjust your voice's volume.



8. Adjust **ECHO**, **TAPE SPEED**, and **BALANCE** for the desired effect.

Note: With a regular (non-karaoke) tape, you cannot adjust the balance between the prerecorded original singer's voice and the music.

9. If you are using a karaoke cassette tape, adjust **A.V.C.** for the desired effect.

SINGING ALONG WITH AN EXTERNAL AUDIO SOURCE

If you connected an external audio source as described in "Connecting an External Audio Source for Input" on Page 7, follow these steps to sing along with that audio source.

1. Press **POWER** to turn on the system. The POWER indicator turns on.
2. Set **AUX/TAPE** on the back of the system to **AUX**.
3. Turn on the audio source.
4. Adjust **VOLUME** and the equalizer controls for the desired sound.
5. Set the microphone's **ON/OFF** switch to **ON**. Sing directly into the microphone along with the music.
6. Turn **MIC VOLUME** toward **MIN** or **MAX** to adjust your voice's volume.
7. When you finish, press **POWER** to turn off the system, turn off the audio source, then set the microphone's **ON/OFF** switch to **OFF**. The POWER indicator turns off.

RECORDING

You can record as you sing along with a tape or another audio source. You can also record only the external audio source, or dub from one cassette tape to another.

Note: Most material on compact discs and prerecorded tapes is copyrighted. Unauthorized duplication of copyrighted material is a violation of the copyright laws of most countries and such duplication may result in fines and/or imprisonment. Note, however, that in the United States, it is not a violation of U.S. copyright laws for a consumer to use an audio recording device to duplicate musical recordings for non-commercial (personal) use.

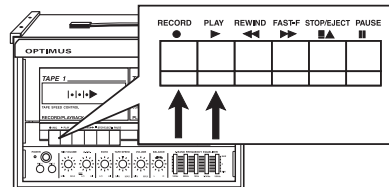
RECORDING TIPS

- Tape quality greatly affects the quality of the recording. We recommend RadioShack Supertape Extended Range or Low-Noise Type 1 tape.
- Before recording, be sure the tape you are using has its erase-protection tabs in place. See "Preventing Accidental Erasure" on Page 17.
- Recording automatically stops when the tape in TAPE 1 reaches the end. To record on the other side, turn over the tape.

RECORDING YOUR VOICE TO MUSIC

Follow these steps to record your voice along with music from a tape in TAPE 2 or an audio source connected to the system's **AUX IN R** and **L** jacks.

1. Load a blank tape or one that you want to record over into TAPE 1, with the side you want to record on facing you and the full reel to the left.
2. Follow Steps 1–9 under "Singing Along with a Cassette Tape" on Page 12 or Steps 1–6 under "Singing Along with an External Audio Source" on Page 13.
3. Press **RECORD** on TAPE 1 to begin recording. **RECORD** and **PLAY** both lock down.



Note: Press **PAUSE** on TAPE 1 to temporarily stop recording (TAPE 2 continues to play). Press **PAUSE** again to resume recording.

4. Press **STOP/EJECT** on TAPE 1 to stop recording. **RECORD** and **PLAY** release.
5. Press **STOP/EJECT** on TAPE 2 or stop the audio source.

DUBBING A CASSETTE TAPE

Follow these steps to dub (copy) from one cassette tape to another.

1. Load the prerecorded tape you want to copy from into TAPE 2.
2. Load a blank tape, or one you want to record over, into TAPE 1 with the side you want to record on facing you.
3. Press **PAUSE**, then **RECORD** on TAPE 1. **RECORD** and **PLAY** both lock down.
4. Press **PLAY** on TAPE 2 to start playback. **PAUSE** on TAPE 1 automatically releases and recording starts.

Note: You can listen to the tape playing in TAPE 2 as you copy it. Set **VOLUME** to a comfortable level. The volume setting does not affect the recording level.
5. Press **STOP/EJECT** on TAPE 1 to stop recording. **RECORD** and **PLAY** release.
6. Press **STOP/EJECT** on TAPE 2 to stop playing the tape.

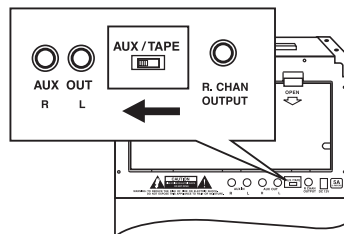
USING OPTIONAL COMPONENTS

LISTENING TO AN EXTERNAL AUDIO SOURCE

If you connected an external audio source as described in "Connecting an External Audio Source for Input" on Page 7, follow these steps to listen to that audio source through your system's speaker.

Warning: To protect your hearing and prevent damage to the system, always set the volume controls to the lowest settings before turning on the source and the system.

1. Set **AUX/TAPE** on the back of the system to **AUX**.



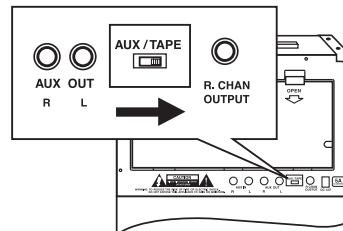
2. Turn on the audio source.
3. Press **POWER** to turn on the system. The **POWER** indicator turns on.
4. Adjust the system's **VOLUME** and equalizer controls for the desired sound.
5. To turn off the system, press **POWER**. The **POWER** indicator turns off.
6. Turn off the audio source.

USING ANOTHER AUDIO COMPONENT

If you connected an audio component as described in "Connecting an Audio Component for Output" on Page 7, follow these steps to listen to the system's sound through that component's speaker(s).

Warning: To protect your hearing and prevent damage to the audio system, always set the volume controls to their lowest settings before you turn on the component and the system.

1. Set **AUX/TAPE** on the back of the system to **TAPE**.



2. Press **POWER** to turn on the system. The **POWER** indicator turns on.
3. Turn on the audio component.
4. Sing through the microphone (see "Singing Along" on Page 11).
5. When you finish, turn off the audio component.
6. Press **POWER** to turn off the system. The **POWER** indicator turns off.

CARE AND MAINTENANCE

To enjoy your Optimus Stereo Dual-Cassette Karaoke Center for a long time:

- Keep the system dry. If it gets wet, wipe it dry immediately.
- Use and store the system only in normal temperature environments.
- Handle the system gently and carefully. Don't drop it.
- Keep the system away from dust and dirt.
- Wipe the system with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the system's internal components can cause a malfunction and invalidate its warranty. If your system is not performing as it should, take it to your local RadioShack store for assistance.

TAPE TIPS

Erasing a Cassette Tape

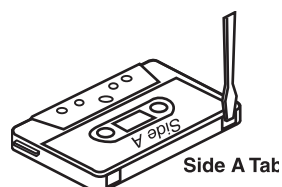
If you no longer want a recording, you can record over or erase it.

To erase a previously recorded section of a tape, simply record over it. To erase the entire cassette tape, let the tape record to the end.

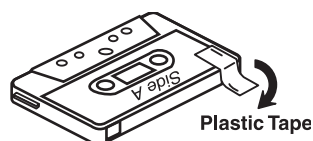
You can quickly erase both sides of a cassette tape using a bulk tape eraser (such as Cat. No. 44-232).

Preventing Accidental Erasure

Cassette tapes have two erase-protection tabs — one for each side. To protect a recording from being accidentally recorded over or erased, use a screwdriver to remove one or both of the cassette tape's erase-protection tabs.



If you want to record on a tape after you have removed the erase-protection tab, place a piece of strong plastic tape over that side's erase-protection hole. Be sure you cover only the hole originally covered by the erase-protection tab.



Note: Removing the erase-protection tabs does not prevent a bulk eraser from erasing a cassette tape.

Restoring Tape Tension and Sound Quality

After you play a cassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reels by gently tapping each side of the cassette's outer shell on a flat surface.

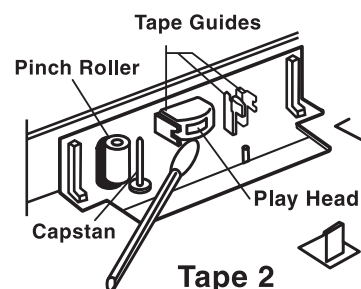
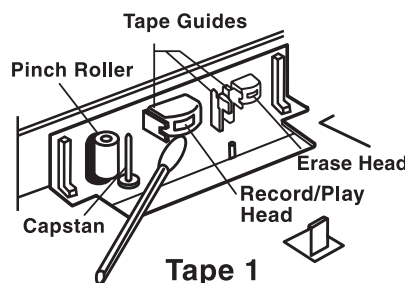
Caution: Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.

Cleaning the Tape-Handling Parts

Dirt, dust, or particles of the tape's coating can accumulate on the tape heads and other parts that the tape touches. This can greatly reduce the performance of the cassette player. Use the following cleaning procedure after every 20 hours of tape player operation.

1. Remove the batteries, and disconnect the AC power cord or DC adapter.
2. Press **STOP/EJECT** on TAPE 1 and TAPE 2 to open the cassette compartment doors.

3. Press **PLAY** on TAPE 1 and TAPE 2 to expose the tape-handling parts.
4. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the record/play heads, pinch rollers, capstans, tape guides, and erase heads.



5. When you finish cleaning, press **STOP/EJECT** on TAPE 1 and TAPE 2 and close the cassette compartment doors. Then reconnect power.

Your local RadioShack store sells a complete line of cassette deck cleaning supplies.

SPECIFICATIONS

Power Output	15 Watts per Channel (at 10% THD)
Equalizer	100 Hz ± 8 dB
	300 Hz ± 8 dB
	1 kHz ± 8 dB
	3.3 kHz ± 8 dB
	10 kHz ± 8 dB
Track System	4 Track Two Channels Stereophone
Tape Speed	17 $\frac{7}{8}$ ips
Recording System	AC Bias
Erasing System	Magnetic
Wow and Flutter (WRMS)	Less Than 0.25%
Record/Play Frequency Response (at ± 3 dB)	125–8000 Hz
Signal-to-Noise Ratio	40 dB
Speaker	8-Inch Woofer and 2-Inch Tweeter (4 Ohms)
Power Source	AC 120V, 60 Hz, 70 W; 8 D Batteries; or 12V Vehicle Battery with DC Adapter (Cat. No. 270-1562)
Battery Life	Approx. 10 Hours
Dimensions (HWD)	23 $\frac{1}{8}$ \times 14 $\frac{3}{4}$ \times 9 $\frac{3}{4}$ Inches (58.8 \times 37.5 \times 24.8 cm)
Weight	22 lbs (9.9 kg)
Accessories	Prerecorded Karaoke Cassette Tape Microphone

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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